PARTS CATALOG

FOR

Ongn o

ELECTRIC GENERATING PLANTS

WB SERIES



1400 73RD AVENUE N.E. . MINNEAPOLIS, MINNESOTA 55432

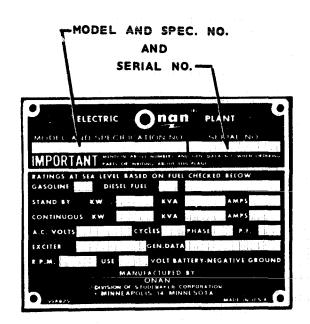
A DIVISION OF ONAN CORPORATION

INTERNATIONAL OFFICE: EMPIRE STATE BUILDING, NEW YORK, N.Y.

INSTRUCTIONS FOR ORDERING REPAIR PARTS

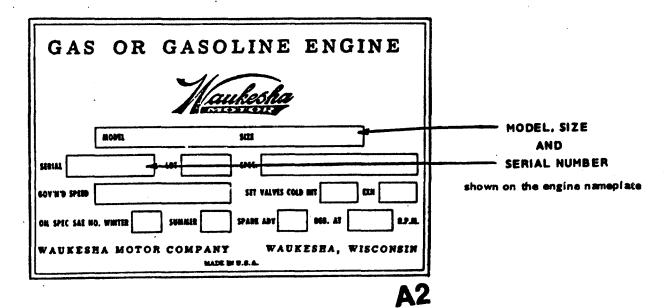
ONAN PARTS

All parts in this list are *Onan* parts. For *Onan* parts or service, contact the dealer from whom you purchased this equipment or your nearest authorized service station. To avoid errors or delay in filling your order, please refer to the *Onan nameplate* located on the upper right side of the flywheel housing and give the complete:



WAUKESHA PARTS

All Waukesha parts must be ordered from the Waukesha Motor Company of Waukesha, Wisconsin, or their nearest authorized distributor. Refer to the Waukesha Engine flywheel housing. When ordering parts, always supply Waukesha with the following nameplate information:



PARTS CATALOG

This catalog applies to the standard WB plants as listed below. Powered by a Waukesha F11976U engine (see Waukesha Manual). Engine parts modified or added by *Onan* will be in this list and have *Onan* part numbers. These supersede similar parts listed in the Waukesha manual. *Onan* parts are arranged in groups of related items and are identified by a reference. All parts illustrations are typical. Using the Model and Spec. No. from the *Onan* plant nameplate, select parts from this catalog that apply to your plant. Unless otherwise mentioned, parts are interchangeable. Right and left plant sides are determined by facing the front end of the engine.

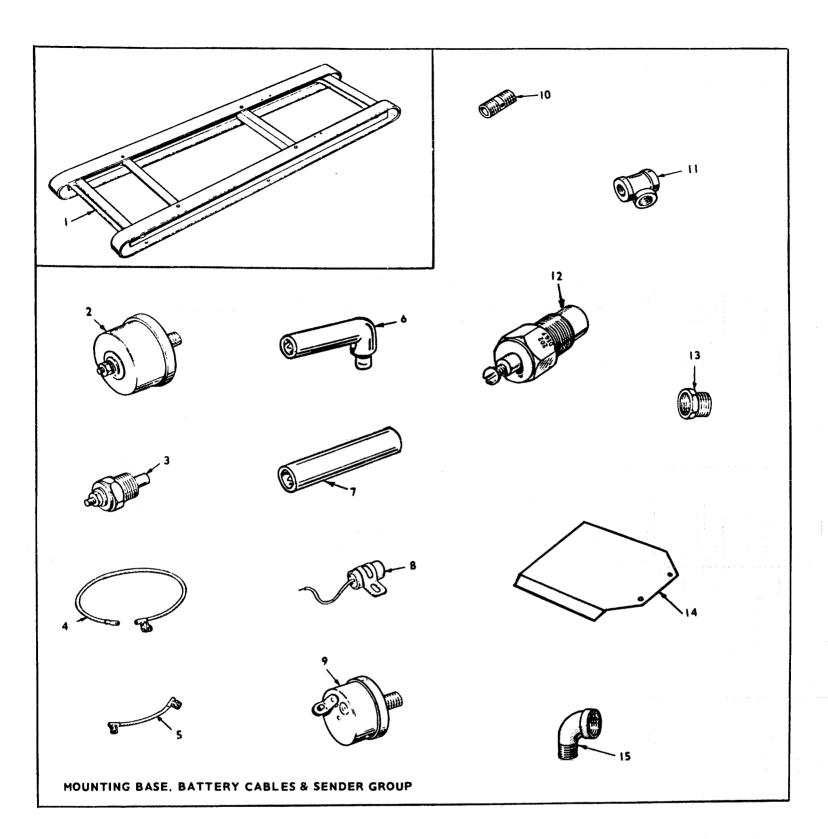
PLANT DATA TABLE

<u> </u>	ELECTRICAL DATA							
MODEL & SPEC. NO. *	WATTS**	VOLTS	CYCLES	PHASE	WIRE			
# 140WB-3R/	140.000	1120/240	601	TŘ	1			
140WB-4R/	140,000	120/208	60	3	4			
I40WB-4XR/	140,000	277/480	60	ž	1 4			
I40WB-5DR/	140.000	120/240	60	3	4			
140WB-6R/	140,000	480	60	3	3			
140WB-9XR/	140,000	347/600	60	3	4			
170WB-4R/	170,000	120/208	60	3	4			
170WB-4XR/	170, 000	277/480	60	3	4			
170WB-5DR/	170,000	120/240	60	3	4			
170WB-6R	170, 000	480	60	3	3			
170WB-9XR/	170, 000	347/600	60	3	4			

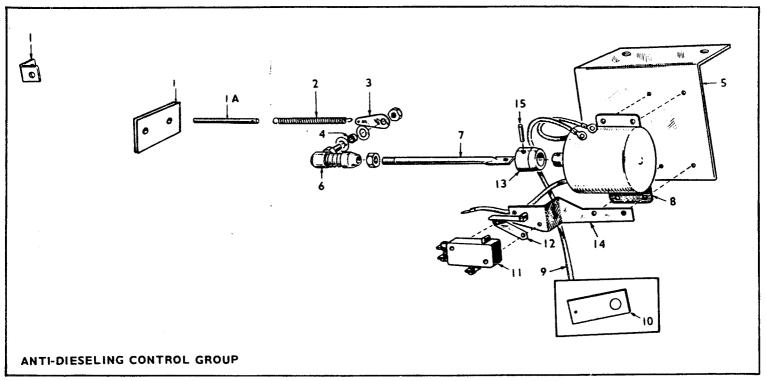
^{* -} The Specification Letter advances (A to B, B to C, etc) with manufacturing changes

REPLACEMENT ENGINE - Refer to factory giving complete Model, Spec., and Serial number from plant (Onan) nameplate.

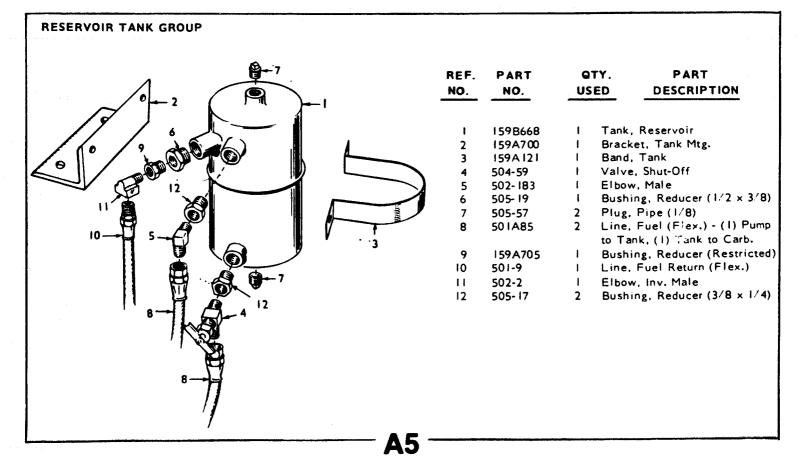
^{**-} Maximum Standby rating, continuous rating is also shown on Onan nameplate.

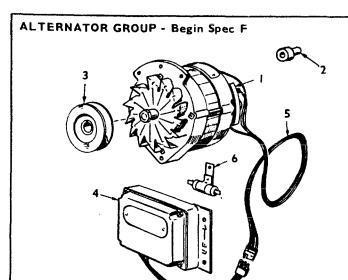


REF.	PART NO.	QTY. USED	PART Description	REF.	PART NO.	QTY. USED	PART DESCRIPTION
ı	403C570	ı	Base, Mounting	9	309B64	1	Switch, Oil Press. Cut-Off
2	SENDER, 193A108	OIL PRESS	SURE (Eng. Unit Only) To Spec C	10	505- 9 8	1	Nipple, Close (1/8 × 3/4) Oil Press. Switch
3	193A98 SENDER,	∤ WATER TE	Begin Spec C MP. (Eng. Unit Only)	11	505-59	ł	Tee, Pipe (1/8) Oil Press. Switch
	193A104 193A100	1	To Spec C Begin Spec C	12	309A I 46	1	Switch, High Water Temp. Cut-Off
4	CABLE, B 416A445 416A444	IATTERY I I	Negative Positive	13	505-19	2	Bushing, Reducer (1/2×3/8) High Water Temp, Switch (1), Water Temp, Sender (1)
5 6	416A446 314-156	। 6	Cable, Batt. Jumper Suppressor, Spark Plug	14	133B160	ı	Baffle, Heat - Temp. Cut-Off Switch
7 8	314P6 312A58	1 3	Suppressor, Coil Condenser, 0.1-Mfd. (1) Charge Reg. (1) Ign. Coil & (1) Charge Gen.	15	505-49	1	Elbow, Street - Pipe (1/8) Oil Press. Switch



REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART DESCRIPTION
1	BRACKET	r, SPRING			307 B259	1	Begin Spec C
	145A200	1	Early Models Only	9	336A179	1	Lead, Sol. to Connector
	145A343	1	Late Models Only	10	191A214	1	Connector, Lead Term.
IA	150A147	1	Stud - Late Models Only	1 11	SWITCH, M	IICRO - Beg	in Spec C
2	SPRING,	THROTTLE			309A42	1	Early Models (3 Term.)
	145A119	1	Early Models (4-1/4")	l l	309A155	1	Late Models (2 Term)
	145A 158		Late Models (2-3/4'')	12	309P133	ŀ	Actuator, Micro Switch -
3	145A118	1	Link, Throttle Spring	'-			Begin Spec C
4	150A302	1	Spacer, Linkage	13	309A132	1	Cam, Micro Switch - Begin
5	145C201	1	Bracket, Sol. Mtg.				Spec C
6	150A638	F	Joint, Ball	14	309A131	1	Bracket, Micro Switch -
7	145A124	1	Link , Sol. to Ball Joint				Begin Spec C
8	SOLENOI	and LEAD	D ASSY.	15	516-86	1	Pin, Roll, Cam - Begin
	307B277	· •	To Spec C				Spec C



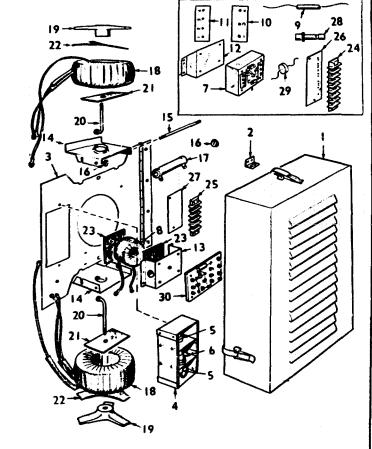


RE!	-	-	QTY. USED	PART DESCRIPTION
1	191D549	1		tor, Charge (Motorola 753A01)
2	232A1813	ı		Alternator Mtg.
3	191-649	i	Pulley,	Alternator
4	191C548	I		or, Charge (Motorola 08 I A02)
5	19 1-544	1	Cable,	Alternator
6	191-550	1	Resisto	r, Alternator - 300-Ohm

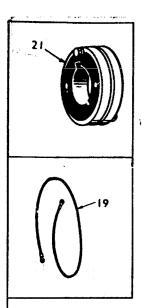
 For Components contact your nearest Motorola dealer, or Motorola Automotive Products Inc., 9401 W. Grand Ave., Franklin Park, Illinois 60131.

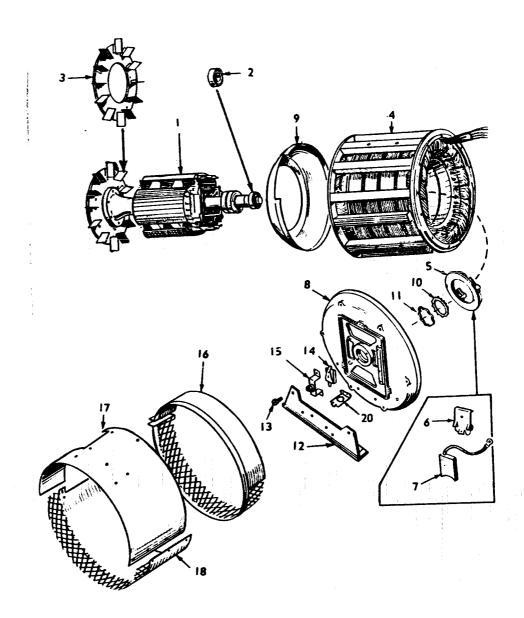
GENERATOR GROUP (Exciter Portion)

GENERATOR GROUP (Exciter Portion)								
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION					
	209-24	I.	Magneciter Assy., Complete - Spec A Only					
	209-25	1	Magneciter Assy., Complete - Begin Spec B					
1	COVER, E	XCITE	<u> </u>					
•	234D73	1	Spec A Only					
	234D116	1	Begin Spec B					
2	232A1376	3	Bracket, Fastening, Cover to Alt. End Bell					
3	234D74	1	Panel Only, Exciter					
4	RECTIFIE	R ASSY	'., POWER - COMPLETE					
	305B206	i	Spec A Only (Incl. (4) #305-205					
	305 B228	1	Rect. plus wire and hardware) Begin Spec B (Incl. (2) #305P233 & (2) #305P234 Rect. plus wire and hardware)					
5	RECTIEIE	R ONL	Y, POWER (Field)					
3	305-205	4	Spec A Only (Incl. in Rect. Assy. #305B206)					
	305P233	2	Lower Two, Neg. (Incl. in Rect. Assy. #305B228) - Begin Spec B					
6	305P234	2	Upper Two, Pos. (Incl. in Rect. Assy. #305B228) - Begin Spec B					
	REACTOR	. VOLT	AGE CONTROL					
7	315B53	1	Spec A Only (Incl. #304-443 Resistor and (4) #305B203 Rect.)					
8	315A78	1	Begin Spec B					
9	RESISTOR	, VOLT	AGE CONTROL REACTOR					
	304-443	I	Spec A Only (Incl. in Reactor Assy. #315B53)					
	304P476	1	Begin Spec B (Incl. in Rectifier & Resistor Assy. #305B227)					
	STRIP, MA	RKER	- VOLTAGE CONTROL REACTOR					
	Spec A On	ly						
10	332 A644	1	Marked +, C, -					
11	332A645	1	Marked 1, 2, 3, 4					
	BRACKET REACTOR		ITING - VOLTAGE CONTROL					
12	232B1404	1	Spec A Only					
13	234B115	ŀ	Begin Spec B					
14	234B75	2	Bracket, Gate Reactor Mtg.					
15	520A 190	1	Stud, Resistor Mtg.					
16	304A15	2	Washer, Resistor Ctrg.					
17	304-442	i	Resistor, Fixed, Mts. to Gate Reactor Bracket					
18	315A51	2	Reactor, Gate					



REF.	PART	-	TY. PART
NO.	NO.	- 03	DESCRIPTION DESCRIPTION
19	232A1389	2	Retainer, Gate Reactor
20	232A 1403	2	Stud, Gate Reactor Mtg.
21	232B1388	2	Gasket, Gate Reactor Mtg.
22	232B1387	2	Gasket, Gate Reactor to Ret.
23	232A1548	2	Gasket, Cont. React. Coil Mtg.
	BLOCK, TER	MIN	AL
24	232A503	1	Spec A Only (8-Place)
25	232A532	1	Begin Spec B (5-Place)
	STRIP, TERM	INA	L BLOCK MARKER
26	332A643	1	Spec A Only (8-Place)
27	332A693	1	Begin Spec B (5-Place)
	RECTIFIER.	VOL	TAGE CONTROL REACTOR
28	305-203	4	Spec A Only (Incl. in #315B53)
29	305P218	4	Begin Spec B (Incl. in #305B227)
30	305B227	1	Resistor Assy., Rect. (Incl.
			304P476 Resistor & (4) Rect.
			305P218) - Begin Spec C
			3





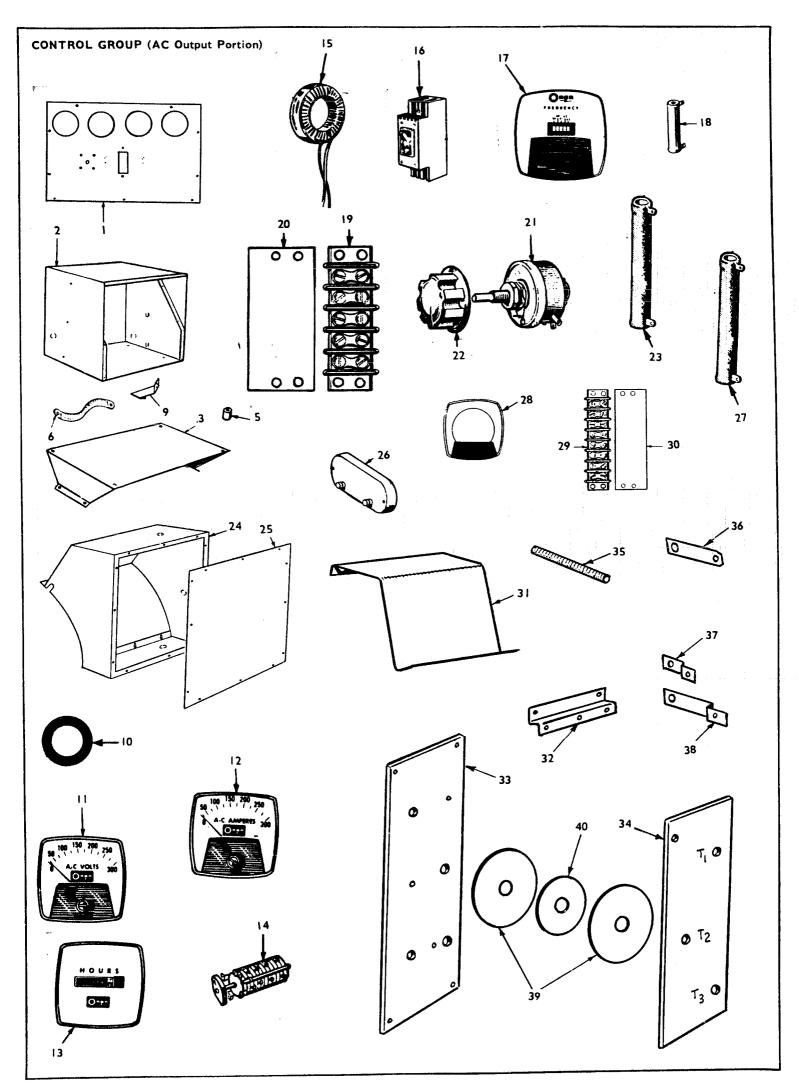
GENERATOR GROUP (Alternator Portion)

NOTE: Output Terminal Box, Cover & Internal Parts listed in the AC Output Control Group (Mounts on Side of Gen.).

REF.			PART SED DESCRIPTION
1	•	1	Rotor Assy., Wound, Incl. Brg.,
_	OF A DING		Blower & Drive Assy.
2	BEARING		
	5 IOP63	ı	To Spec E
	510P88	1	Begin Spec E
3	205C61	1	Blower
4	•	1	Stator Assy., Wound
5	212C248	1	Rig Assy., Brush, Incl.
_			Brushes & Springs
6	212B1105	4	Spring, Brush
7	214A56	4	Brush
8	211D153	1	Bell, End, Alt. to Exciter -
			NOTE: Spec A also order
			#232A1807 Holder, #232A1808
			Spring, #5 10 P88 Bearing, #526 A 17
_			Spacer & #812-192 Screw
9	234D69	ı	Baffle, Air
10	HOLDER,	BEARII	NG
	232A I 186	ı	To Spec E
	232A 1807	i	Begin Spec E
			-

REF. NO.	PART QT NO. USE		
11	SPRING, B	EARIN	G HOLDER
	232A1187	1	To Spec E
	232A 1808	ŧ	Begin Spec E
12	232D1396	ŀ	Support, Gen. Mtg.
13	805-35	4	Bolt, Place, Gen. Mtg.
14	150 A 7 1 7	1	Switch Assy., Overspeed
15	150A713	I	Bracket, Overspeed Switch, Incl. Contact Point
16	234D70	1	Band, Gen., Frt. Port. (Narrow)
17	•	ı	Band, Gen., Rr. Port., Upper Half (Wide)
18	•	1	Band, Gen., Rr. Port., Lower Half (Wide)
19	336A1213	1	Lead Assy., Overspeed Switch
20	234A 107	1	Bracket, Conduit Connector
21	204A83	1	Ring, Collector

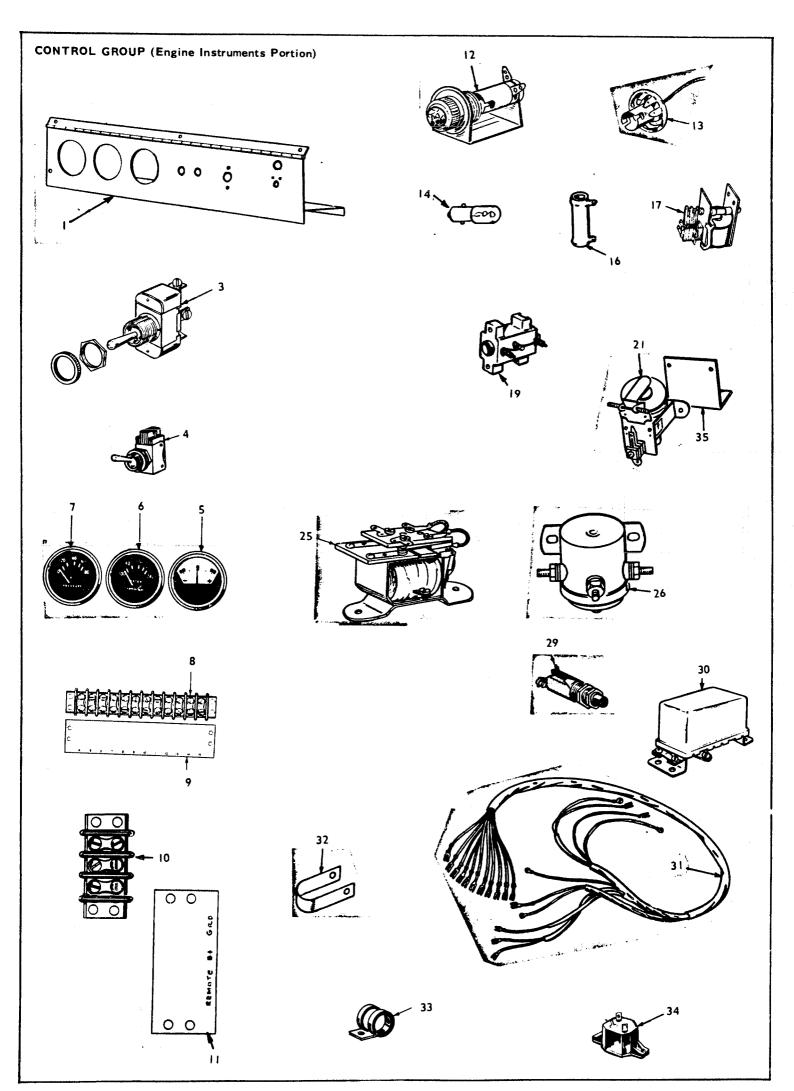
* - Order by description, giving complete Model, Spec & Serial Number (ONAN Nameplate).



A8

REF.	PART NO.		TY. SED	PART DESCRIPTION		REF.	PART NO.		TY.	PART DESCRIPTION
	*	1		nly, Upper Cont.		20	332A690	1	Strip, Spec	Marker (5 Place) - Begin B
2	BOX ONLY, 0 301D1537 301D2115	1	TROL To Spec Begin S			21	303-111	1		stat, Volt. Reg Begin
	301D2113	i i		, Cont. Box Mtg.	-	22	303-32	1	-	, Rheostat - Begin Spec B
3 5	402-78	4		Rubber, Cont. Box	:	23	304A484	- 1		stor, Volt. Reg. (825-Ohm,
:	402-70	7	Mtg.	(dober, cont. bex	ł	•			75-Wa	att) - Begin Spec B
6	337A44	1	Strap, G	ird.		24	•	ı	Box,	Output Term. (Side of
9	301A1914	ì		, Panel Stop -					Gen.)	
,	301/11/11	•	Begin S			25	•	1	Cove	r, Output Term. Box
10	508-63	1	Gromme	t (2-3/4'' Hole) -	İ	26	302-157	ł		plier, Meter (Used only
	300 03		Begin S							Early 0-500 Scale Voltmeter)
11	VOLTMETER	. AC	_	Scale & Select		27	RESISTOR,	RUN		TIME METER
• •	according to						304A99	1		Ohm, 10-Watt (For #302-212
	302P421	1		er - Scale 0-300	1					on 120/240-V, 3-Phase
	302P422	ļ	Voltmet	er - Scale 0-600						s - Spec A Only) - 5DR
12		C (Check Sca	ale & Select according	İ		304A125	t		00-Ohm, 25-Watt (For #302-212
	to Rating) NO				}					on 480-V Plants) - 6R
	302P413	1		r – Scale 0-300	ļ		304A444	1		Ohm, 10-Watt (For #302-387
	302P414	İ	Ammeter	r - Scale 0-500						on early 120/240-V, 3-Phase
	302P415	1	Ammete	r - Scale 0-750	1					s - Spec A Only) - 5DR
	302-395	2		r - Scale 0-1000			304A445	1		Ohm, 25-Watt (For #302-387
13	METER, RUN	ININ	G TIME							on early 480-V Plants -
	302-212	1	•	e Plants - To Spec D					-	A Only) - 6R
				ace #302-387 Meter req		28	302B448	i i		, Meter Face
				r, also order #304A125	1	29	332A503	1		(, Term. (8-Place)
				r for 480-V plants &	.	30	332A601	CHE		Marker (15 through 22) TRANSFORMER
				Resistor for 120/240-1	/·	21		CUKI		
			3-phase			31	232B1391			r (large) er (small)
	302P465	. !		e Plants - Begin Spec D)	32 33	232C 1390	1		I, Current Transformer Mtg.
	302P467	. 1		e Plants - Begin Spec	j	33		•		The state of the s
				∕480-∨ 3-phase	-	3.4				om) - Spec A Only I, Current Transformer
	302-102	ŀ		Plants		34	7	ı		ning (Top) - Spec A Only
14	308-22	ı		Volt & Current Sel.		n r	CTUD OUT	DUT		(As Req.) - Spec A Only
	#D 4110=001		(3-phase	**	İ	35	232A1420	4	7/0.1	4 x 6-1/2" (1- Phase use 3)
15				NT (Check Transformer	Ì		232A1420	4		8 x 6"
	Nameplate, Se 302B107	8 e i e c		ate Ratio 300/5 (Use			23271700	7	J, 0-1	0 × 0
	3026107	3		800 AC Ammeter)	1	36	STRAP, OU	TPUT	TERN	1 STUD to GRD. (As Req.) -
	302B372	3		ate Ratio 500/5 (Use			Spec A Only			
	3026372	3		600 AC Ammeter)	ł		337A58	1		" × 1-1/2"
	302B385	3		ate Ratio 750/5 (Use			337A57	1		'' × l''
	3026363	,		50 AC Ammeter) NOTE	.	37				1. – GRD. STUD to MACH.
			l-phase				SCREW (As	Req.)		
	302B394	2	•	ate Ratio 1000/5 (Use	1		232A1416	- 1		" x I-1/2"
	3028374	_		000 AC Ammeter)	ĺ		232A 397	1		" x !"
16	BREAKER, C	IRC	UIT	,	ł	38				1 UNGRD. STUD to MACH.
	320B18	1		Plants - 20-Amp.			SCREW (As			
	320B170	1		Plants - 18-Amp.			232A1415	3		" x I-1/2" (-Phase use 2)
	320B2	ı	3-Phase	Plants - 15-Amp.	ı		232A1398	3		" x !"
17	METER, FRE	QUI			-	39				NSULATING - TRANSFORMER
.,	302-213	ı		e Plants	1		MTG. (As R			
	302-234	i		e Plants			508A8 I	6		" I.D. x 4-1/2" O.D.
18	RESISTOR, F	RE			- 1		E00 470	,	•	nase use 4)
-	304A305	1	For 480	-V & 277/480-V 3-Phas	e	40	508A79	6		" I.D. x 3" O.D.
				(45, 000-Ohm, 10-Watt)		40			- IK/	ANSFORMER MTG. (As Req.)
	304A125	ı	For 120	/240-V, 3-Phase Plants	.		Spec A Only	_	7/011	ID × 2-1/4" OD
				-Ohm, 25-Watt)			508A83	3		I.D. x 2-1/4" O.D. ase use 2)
19	332A604	i	Block,	Terminal (5 Place) -	- 1		E00 4 92	2		i.D. x1-1/2" O.D.
			Begin S	рес В	l		508A82	3	5/ ਰ ੰ	1.U. XF 1/2 U.U.

Order by description, giving Model, Spec & Serial Number (ONAN Nameplate)



A10

REF.			QTY. USED	PART DESCRIPTION		REF. NO.	PART NO.		TY. SED	PART DESCRIPTIO	N
		`				***************************************					_
1	PANEL ONI	Y _	LOWERC	ONTROL			304A49€	i	No. 8 to N	lo. 13 Eng. Cor	nnection
•	301C1672	_ _	To Spec							Ohm, 75-Watt)	
	301D2115	1	Spec D a		1				BEGIN SE	PEC D	
	30102124	1	Begin Sp	ec F	1		304A276	ı		to Emerg. Lat	ch Relay
3	SWITCH, TO	OGGL							(75-Ohm,		
	308P2	- 1		D (Run, Stop, Auto)	1		304A62	I		lot Relay (25-0	hm,
	308P138	ı		ec D (Run, Stop,			2024/55		25-Watt)		Danim
	308P2		Remote)	Innallisha Dasin		17	307A655	ł	Spec D	nergency Latch	- Begin
4	30872	ı	Spec F	anel Light - Begin		10	RELAY, ST	FART	-	=CT	
5	302A61	1		Charge (30-0-30)		18	307B52	1	To Spec f		
6	GAGE, WAT	ER T					307 P820	1	Begin Spe		
	193B106	1	To Spec	C		19	320A 104	1	Limiter, (Cranking	
	193B112	ı	Begin Sp	ec C		21	RELAY, T	IME DI			
. 7	GAGE, OIL	PRE	SSURE				. A388	ı	To Spec I		
	193B107	1	To Spec				307 A899	1	Begin Spe		
•	193B111	ļ	Begin Sp		Į.	23	307P778	2		elay Hold-down	
8 9	332A607	1		erm. (12-Place) ker (4 through 15)	ŀ	24	SOCKET, C	CYCLE			
10	332A608 BLOCK, TE	RMIN		Ker (4 tillough 13)			323P52 323P52	2	Begin Spe Begin Spe		
	332A604	1		5-Place) To Spec			323P52	3	Begin Spe		
			D	, , , , , , , , , , , , , , , , , , , ,	Į.	25	RELAY, E				
	332A611	ı	Remote (3-Place) - Begin Spec	s		307B299	1	To Spec		
			D		l		307 B6 I7	1	Spec D O	nly	
11	STRIP, MAR	KER				26	RELAY, P	ILOT			
	332A679	i		CLI, CL2. B+, GND,	Į.		307B514	ı	To Spec (
	222 4772			To Spec D			307 B6 I		Begin Spe		
	332A762		Begin Sp	GND, B+, REMOTE)	-	27	RELAY, C	YCLE			
12	332P69	1		le Assy., Pilot Light			307A509 307A753	1	Spec C O	ec D (5-Sec.)	
			Begin Sp		1		307A697	•		ec D (10-Sec.)	*
13	332P72	1		le, Panel Light -		28	RESISTOR				
			Begin Sp	ec F	Ī		304A194	1		. Relay to Ign.	Relay
14	BULB				Ī				(50-Ohm,	25-Watt) - Spec	C Only
	322-17	1	Spec D a				304A66	1		. Relay to Cra	
16	322-17 RESISTOR,	3	Begin Spa	ec r						10-Ohm, 50-Wat	t) - Begin
10	KESISTON,		TO SPEC	٠ ر		20	200.01		Spec C	Saab Daa	
	304A32	i		connect to Ign. Relay	. [29	308-91	1	To Spec 8	merg, Stop Res	e
			(15-Ohm,	-	Į	30	RELAY		10 Spec (•	
	304A45	1	•	Dieseling Relay (4-O	hm,	30	307B4	1	lenition -	To Spec D	
			50-Watt)				307 B597	ı		Begin Spec D	
	304A 192	ı		Limiter to Anti-			307B4	ı	Anti-Dies	eling Solenoid	Start -
				Relay (3-Ohm, 10-W	att)				To Spec (
	2044240		SPEC C			31	•	!		Assy Engine	
	304A248	1		ay Relay to Start- ct Relay (100-Ohm, I	0-Watt)	32	416A96	1		ness (''U'' Sha	
	304A262	1		connect Relay to Tim		33	332-49 320P165	1		ness (''O'' Sha _l Starter Protecti	
		•		lay (50-Ohm, 10-Watt		34	32UF 103	1	Spec C	Starter FroteCti	U11 = 1 U
			BEGIN S	• •	´	35	301A1685	1		Relay Mtg Be	gin Spec D
	304A446	2		Temp. Gage & Oil		33	55.71.005	•		,	
	. =			age (150-Ohm, 10-Wat	rt)	• - 0	rder by des	cription	n, giving M	odel, Spec, and	! Serial
						N	umber (ONA	N Nam	neplate).		